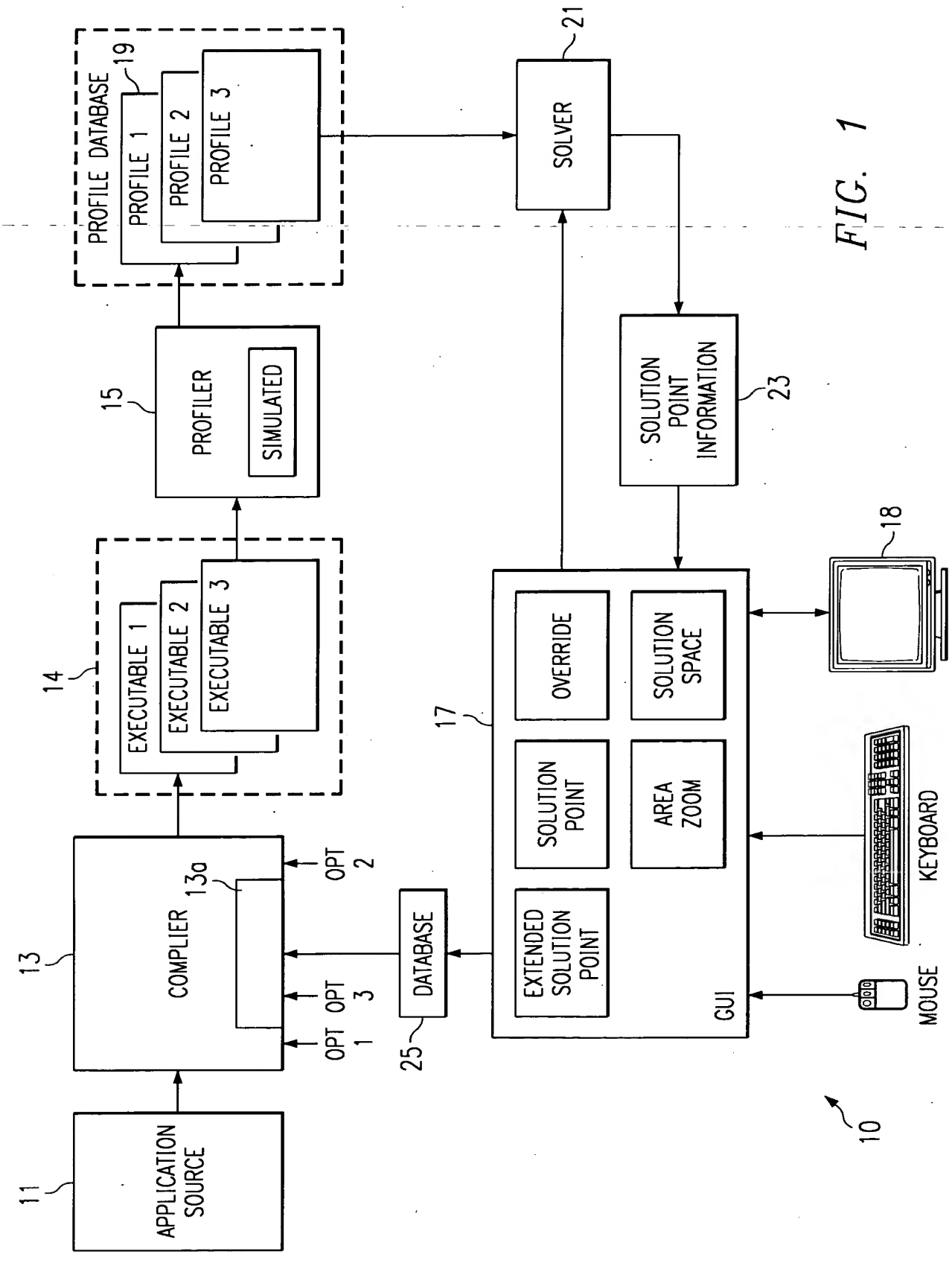

PROFILE DATABASE
19
PROFILE 1
PROFILE 2
PROFILE 3
21
SOLVER
15
PROFILER
SIMULATED
SOLUTION POINT INFORMATION
23
14
EXECUTABLE 1
EXECUTABLE 2
EXECUTABLE 3
17
OVERRIDE
SOLUTION SPACE
18
SOLUTION POINT
AREA ZOOM
KEYBOARD
13
COMPLIER
13a
OPT 2
OPT 1
OPT 3
DATABASE
25
EXTENDED SOLUTION POINT
GUI
MOUSE
11
APPLICATION SOURCE
10

FIG. 1

FIG. 2

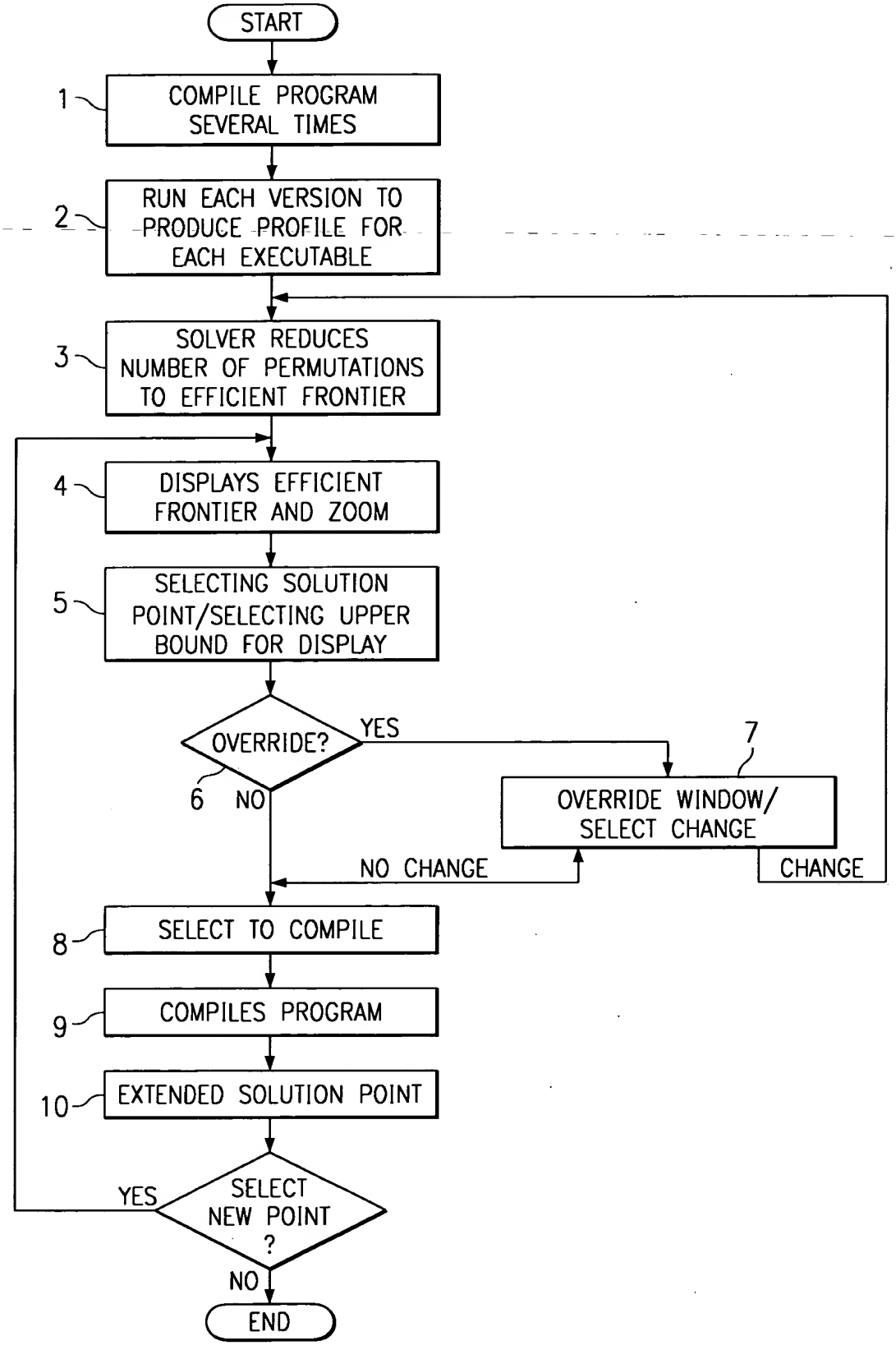

START
1
COMPILE PROGRAM SEVERAL TIMES
2
RUN EACH VERSION TO PRODUCE PROFILE FOR EACH EXECUTABLE
3
SOLVER REDUCES NUMBER OF PERMUTATIONS TO EFFICIENT FRONTIER
4
DISPLAYS EFFICIENT FRONTIER AND ZOOM
5
SELECTING SOLUTION POINT/SELECTING UPPER BOUND FOR DISPLAY
OVERRIDE?
YES
6
NO
7
OVERRIDE WINDOW/ SELECT CHANGE
NO CHANGE
CHANGE
8
SELECT TO COMPILE
9
COMPILES PROGRAM
10
EXTENDED SOLUTION POINT
SELECT NEW POINT ?
YES
NO
END

FIG. 3A

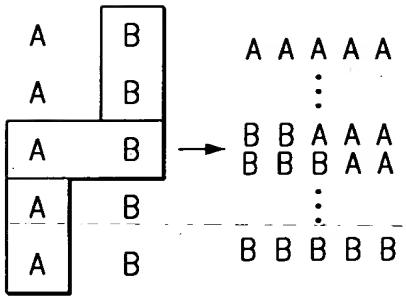


FIG. 3B

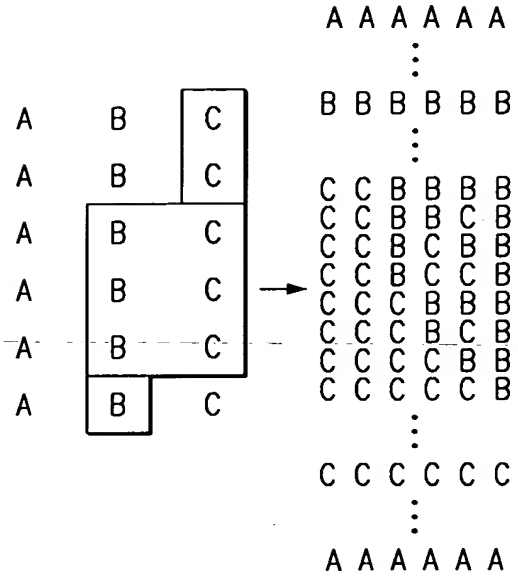


FIG. 4

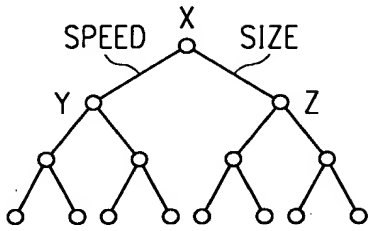


FIG. 5

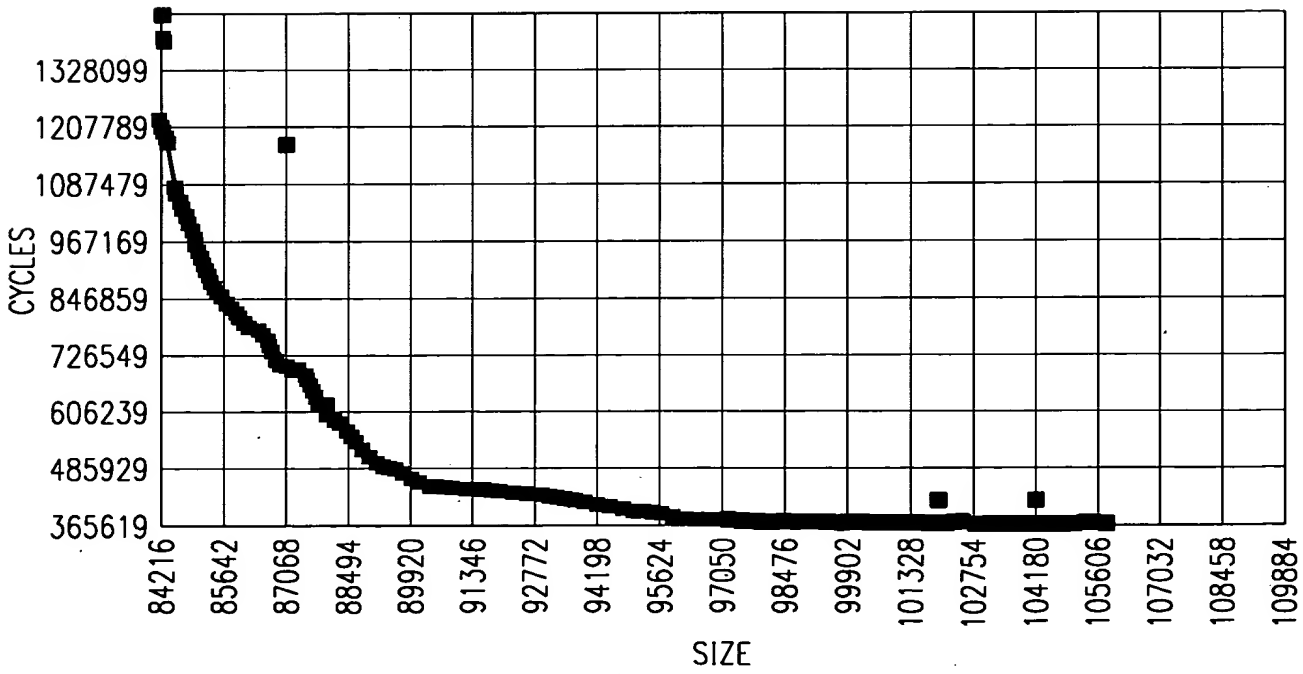
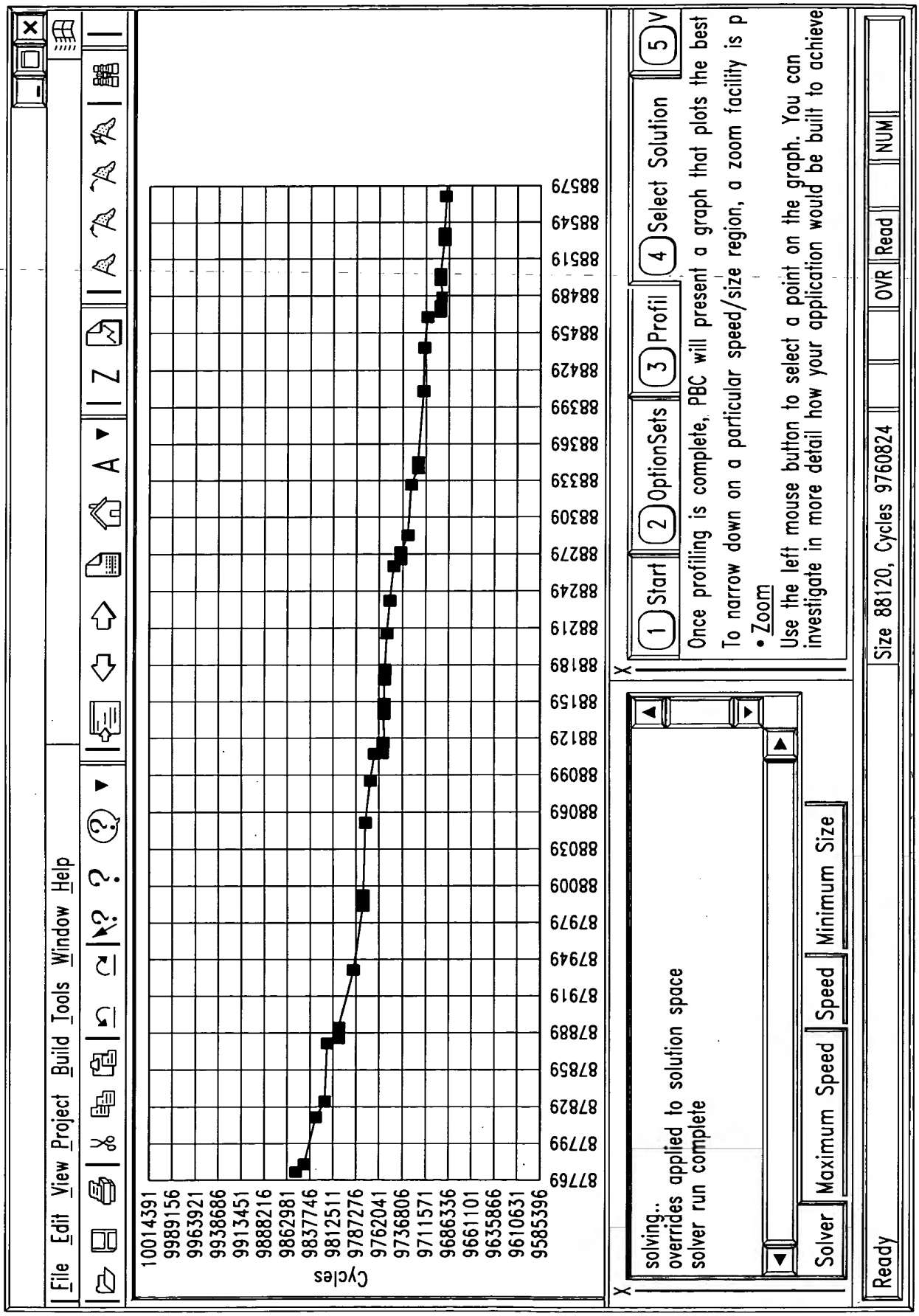


FIG. 6


File Edit View Project Build Tools Window Help
Cycles
10014391
9989156
9963921
9938686
9913451
9888216
9862981
9837746
9812511
9787276
9762041
9736806
9711571
9686336
9661101
9635866
9610631
9585396
88579
88549
88519
88489
88459
88429
88399
88369
88339
88309
88279
88249
88219
88189
88159
88129
88099
88069
88039
88009
87979
87949
87919
87889
87859
87829
87799
87769
1 Start
2 OptionSets
3 Profil
4 Select Solution
5 V
Once profiling is complete, PBC will present a graph that plots the best
To narrow down on a particular speed/size region, a zoom facility is p
• Zoom
Use the left mouse button to select a point on the graph. You can
investigate in more detail how your application would be built to achieve
solving..
overrides applied to solution space
solver run complete
Solver
Maximum Speed
Speed
Minimum Size
Ready
Size 88120, Cycles 9760824
OVR
Read
NUM

TOSHIBA 25F9200

FIG. 7

	Function	Cycles	Size	Option Set	Options
	decoder_homing_fra...	26	80	Size	-o3-oi0-ms2
	rx_dtx	99	900	Minimun Size	-o3-oi0-ms3
	D_plfs_5	641	1716	Minimum Size	-o3-oi0-ms3
	Q_plsf_5	744	1448	Minimum Size	-o3-oi0-ms3
	decoder_reset	296	368	Minimun Size	-o3-oi0-ms3
	Int_lpc2	296	224	Minimum Size	-o3-oi0-ms3
	Lsf_wt	770	236	Minimum Size	-o3-oi0-ms3
	main	2919	1680	Minimun Size	-o3-oi0-ms3
	reset_rx_dtx	274	172	Minimum Size	-o3-oi0-ms3
	reset_tx_dtx	315	184	Minimum Size	-o3-oi0-ms3
	Enc_lag6	242	344	Minimun Size	-o3-oi0-ms3
	vad_reset	506	184	Size	-o3-oi0-ms2
	Int_lnc	616	272	Minimum Size	-o3-oi0-ms3

TOKEN: 2317260

FIG. 8

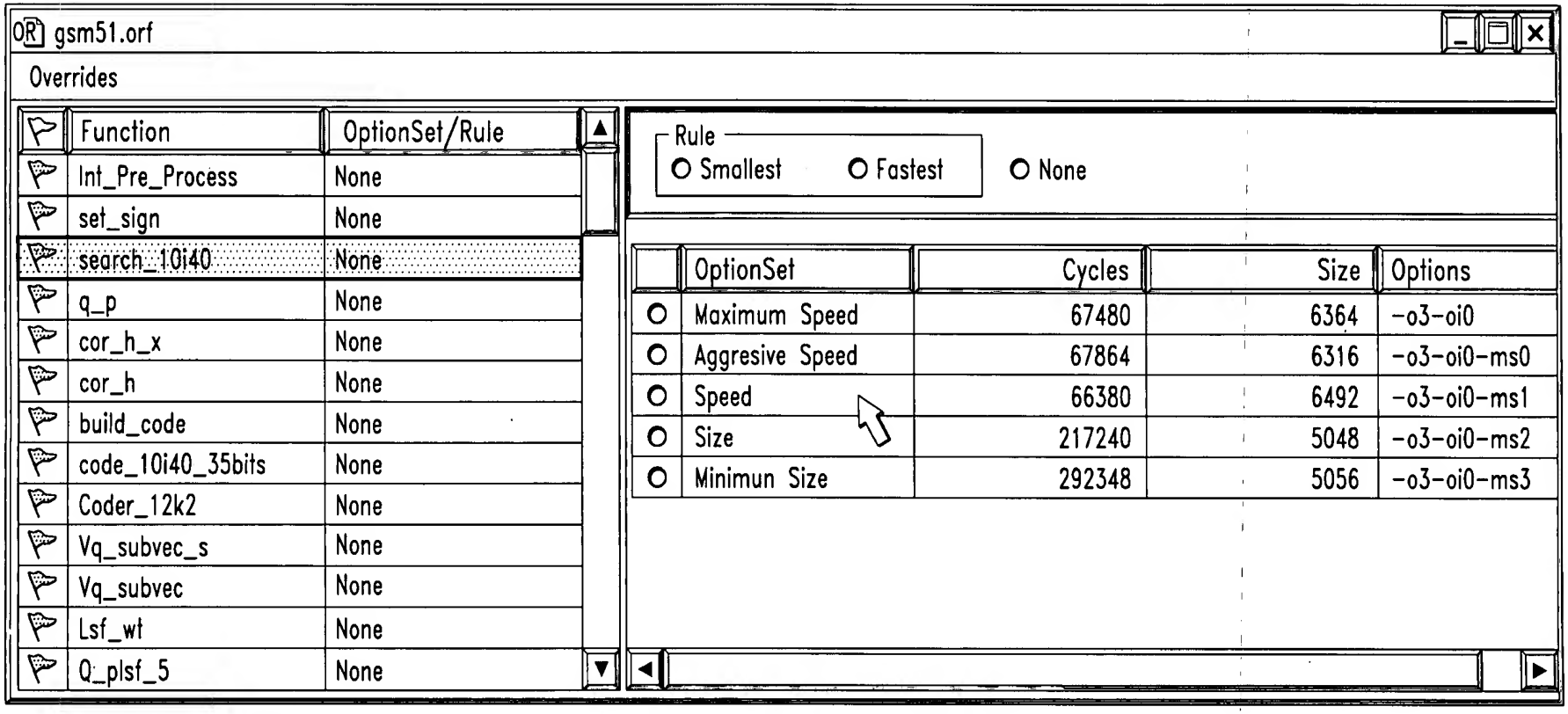


FIG. 9

Estimated:		Actual:	
Cycles:	414834	Cycles:	414834
Size:	53024	Size:	53068
Unprofiled Cycles:	80458	Unprofiled Cycles:	80532
Unprofiled Size:	36388	Unprofiled Size:	36436
Total Cycles:	495292	Total Cycles:	495366
Total Size:	89412	Total Size:	89504

Function	Estimated C... ▼	Estimated Size	Option Set	Profiled Cycles	Profiled Size	Delta Cycle	Delta Size
search_10i40	66380	6492	Speed	66380	6516	0	-24
Syn_filt	32928	744	Maximum Spe..	32928	744	0	0
Vq_subvec	25520	320	Minimum Size	25520	320	0	0
Lag_max	22404	708	Maximum Spe..	22404	708	0	0
Vq_subvec_s	19769	616	Minimum Size	19769	616	0	0
Norm_Corr	16466	1280	Maximum Spe..	16466	1280	0	0
Coder_12k2	16030	3520	Minimum Size	16030	3520	0	0